





# Colorado Springs Utilities

## ❖ Four Service Utility

- 600,000 customers, over 10% of State's population
- \$1 Billion/year
- 2,000 employees
- **Electric**
  - 2 coal, 4 gas, 4 hydro facilities
  - 826 MW summer peak
  - 4.6 Million MWH sendout 70% coal, 10% renewable hydro, 20% gas and/or market purchases
- **Natural Gas**
  - 25 million mmbtus/year
- **Wastewater**
  - 2 state of art wastewater treatment plants
- **Water**
  - 22 Billion gallons
  - 5 water treatment plants
  - Over 2,000 miles of water transmission and distribution pipes



# *Electricity & water do mix*

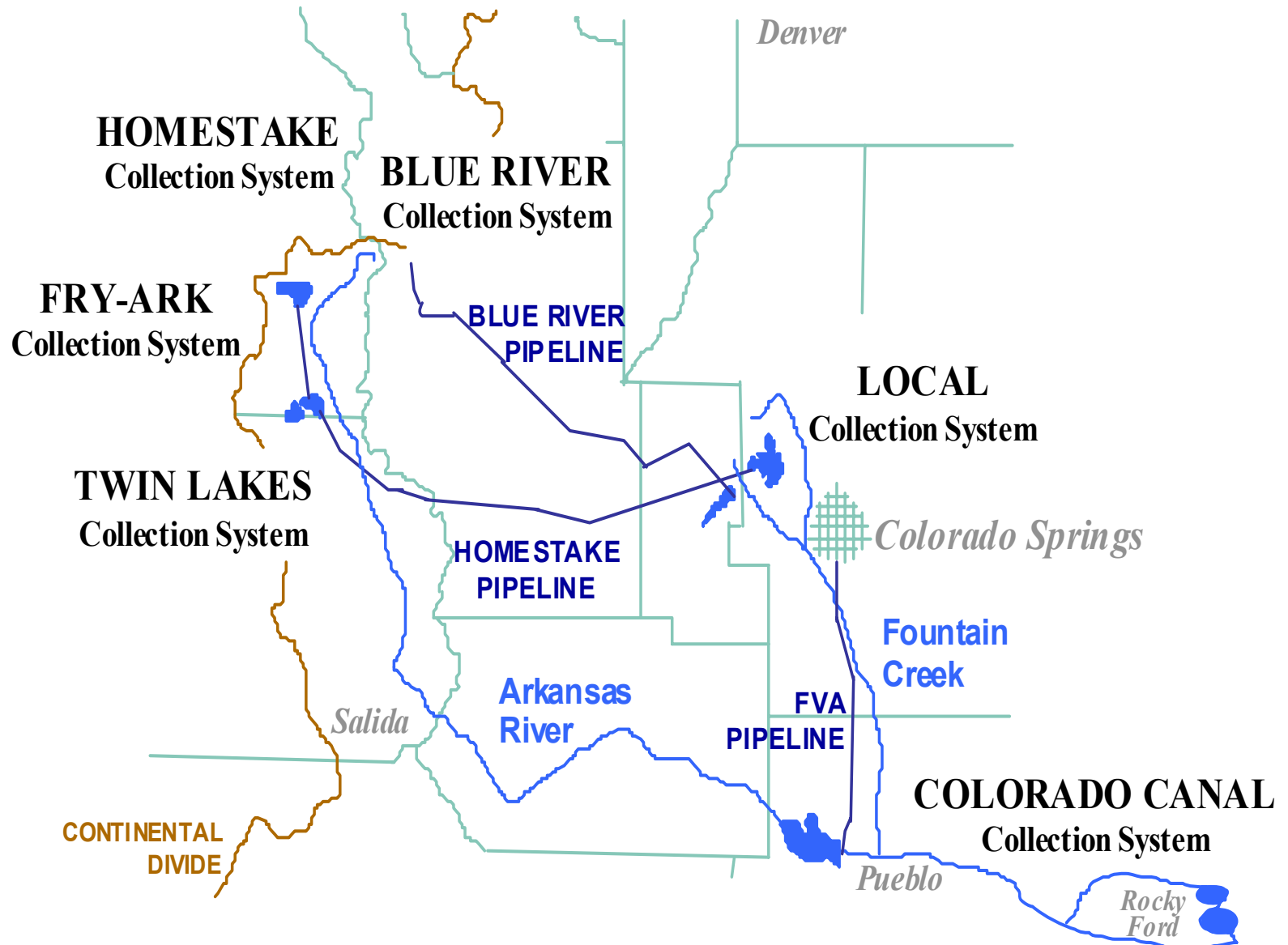
Electricity used to move  
water

- ❖ 50,000 MWh to move 18 billion gallons, includes some gravity assist

Electricity made from  
falling waters

- ❖ 300,000 MWh from of 70 billion gallons, includes transmission losses

# *Raw Water Collection Systems*

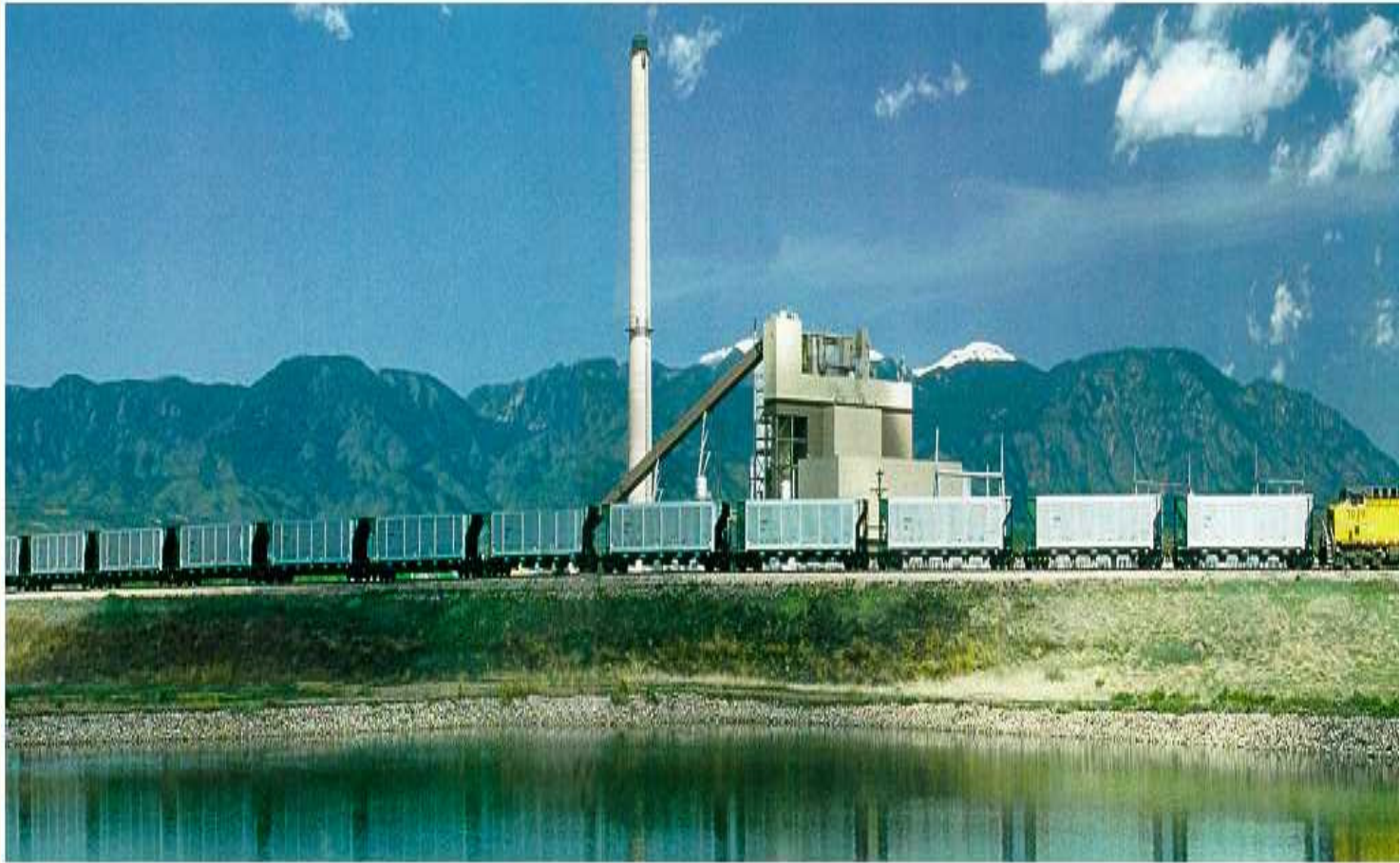






Colorado Springs Utilities  
it's how we're all connected





*Coal deliveries to Nixon*



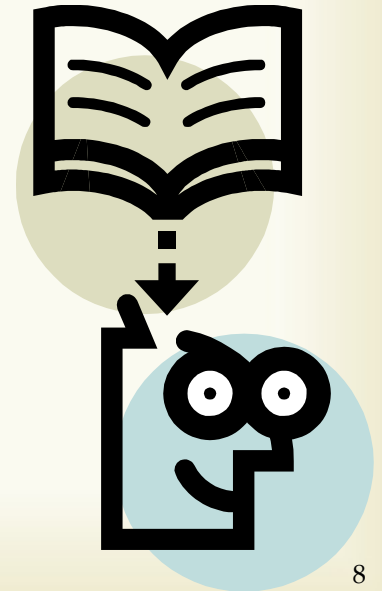
# *Bringing it together*

- ❖ Look for opportunities and synergies to capitalize and benefit from a 4 system perspective
- ❖ Common
  - Shared assumptions, forecasts, techniques
- ❖ Operations
  - Power plants dry cooling or recycled wastewater
  - 10% of all water sendout is recycled
- ❖ Planning
  - Identification of small (micro-hydro) electric generation



# *Future Challenges*

- ❖ Unique physical natures of water and electric systems, technical disciplines, regulatory, and governance.
- ❖ Environmental
  - Air emissions
  - Land use
- ❖ Water transfers and use
  - Interference
- ❖ Aging infrastructure
  - Plants
  - Wires & pipes
- ❖ Brain drain
  - Retirements
  - Lack of science, math, and engineering training in younger generations
  - Competition







# Themes

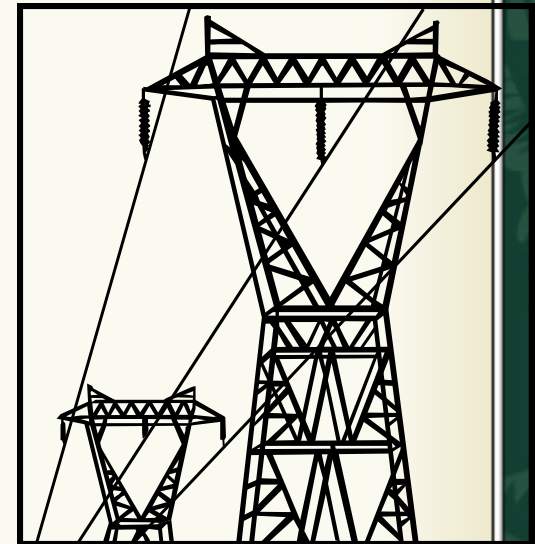
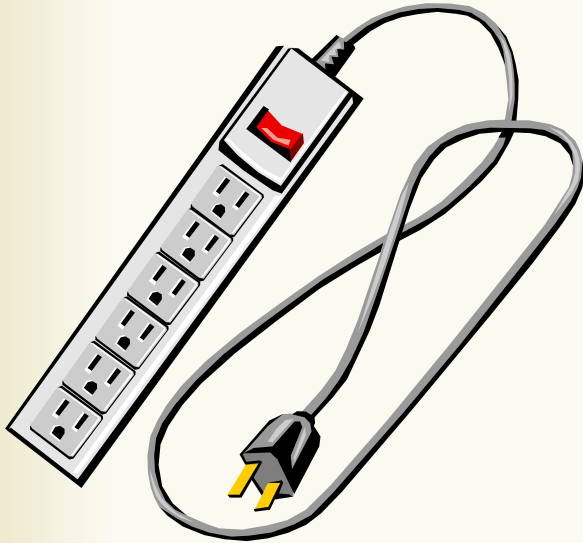
*Growth*

*Environmental Issues*

*Governance*

*Aging Infrastructure  
both Physical & Human*

*Cost control  
& competitive rates*





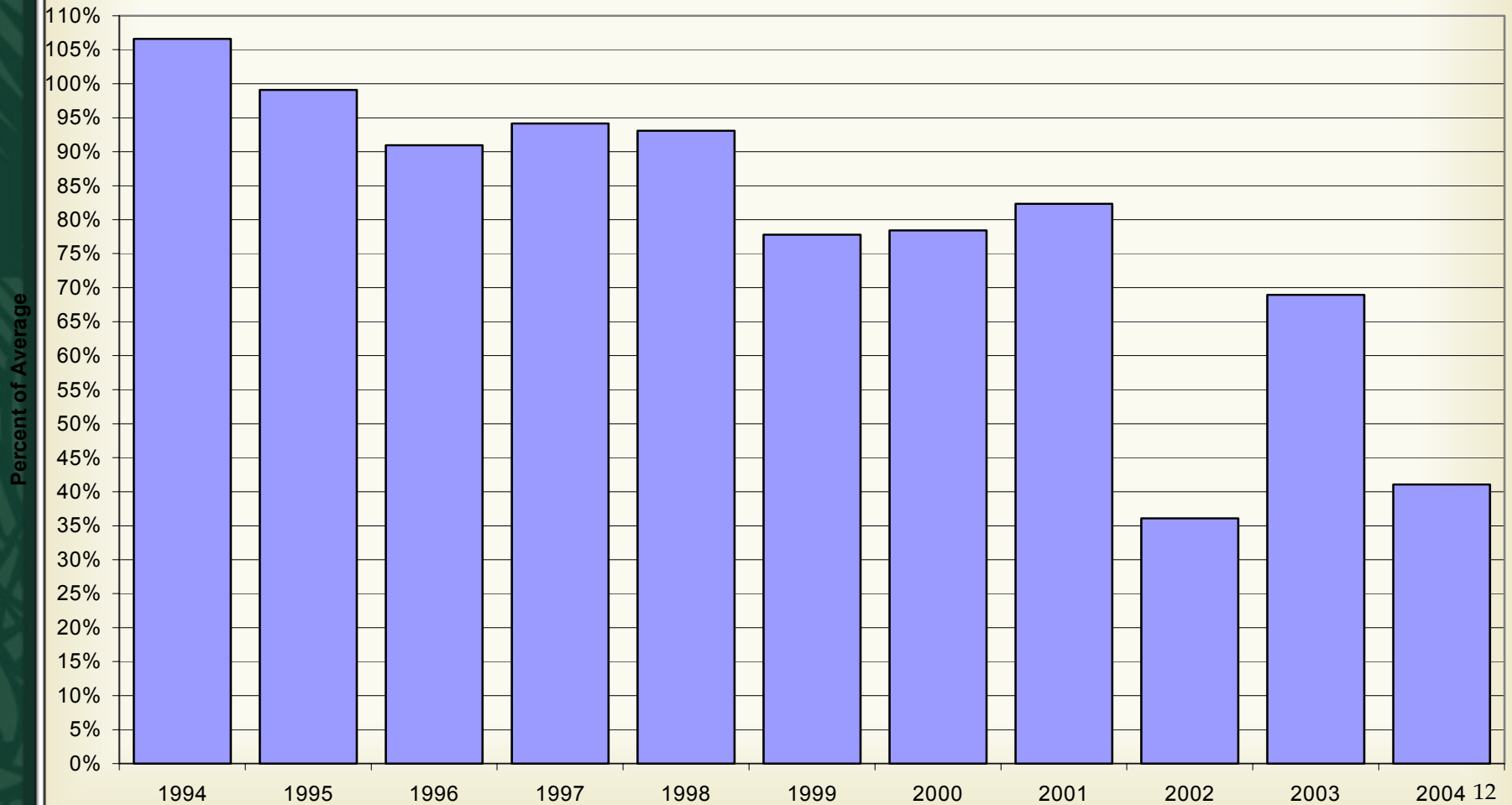
# *Questions & Discussion*





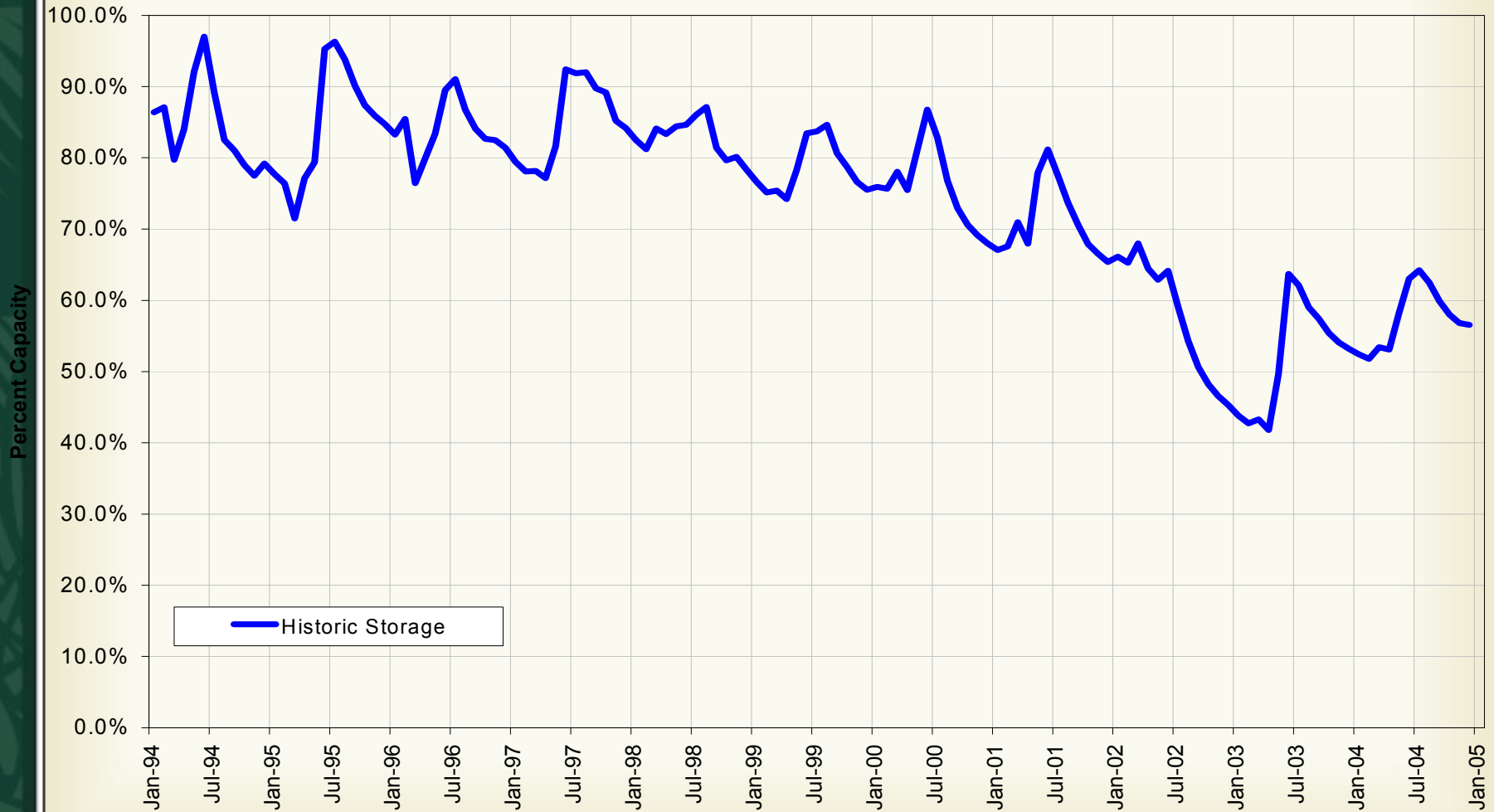
## Colorado Springs Water Yields 1994 - 2004

### Percent of Average Yield for Major Collection Systems





### Total System Wide Storage 1994 - 2004







# *Water Resource Plan*

- ❖ **Conservation**
- ❖ **Nonpotable Water Development**
- ❖ **Existing System Improvements**
- ❖ **Storage**
  - ❖ **Excess Capacity Contract and Pueblo Reservoir Enlargement**
- ❖ **Southern Delivery System**



# *Southern Delivery System Summary*

- ❖ Southern Delivery System project -- best and most responsible option
  - 66 inch 43 mile pipeline to deliver water from Pueblo Reservoir to Colorado Springs
- ❖ Follows through with 1996 Water Resource Plan direction
- ❖ Colorado Springs committed to working with the City of Pueblo and other regional interests
- ❖ The Southern Delivery System will NOT:
  - take another community's water
  - impact Pueblo's Historic Arkansas Riverwalk
  - “dry up” the Arkansas River through Pueblo



# *PREFERRED STORAGE OPTIONS PLAN SUMMARY*

- ❖ Southeastern Colorado Water Conservancy District (SECWCD) Water & Storage Needs Assessment
- ❖ Preferred Storage Option Plan (PSOP) 3 Components
  - Long term excess capacity (LTEC) contracts for existing space (non-project water in project space) in Pueblo Reservoir
  - Pueblo Enlargement
  - Turquoise Enlargement
- ❖ PSOP Legislation
  - Congress Affirmation of Reclamation Authority to Contract for Space
  - Feasible Study of Pueblo/Turquoise Enlargement
  - Consistent with USBR Strategy Plan known as the “Water 2025” which promotes the use of existing facilities



# SUMMARY

- ❖ Needs
  - New systems to store and deliver existing decreed water rights to Colorado Springs and participating regional communities
  - Need delivery system to provide redundancy
- ❖ Actions
  - Support PSOP Legislation that will:
    - Confirm USBR authority to enter into long term contracts
    - Investigate the feasibility of expanding Pueblo Reservoir and Turquoise Reservoir
- ❖ Regional Benefits
  - PSOP provides storage to 15 project participants
- ❖ Regional Consensus
  - City of Pueblo
  - El Paso County
  - City of Aurora, City of Fountain, Pueblo Board of Water Works
  - Colorado River District
  - Friends of the Arkansas
  - Upper Arkansas River Conservancy District
  - Southeastern Colorado Water Conservancy District
  - Action 22
- ❖ This project is the least cost, most environmentally friendly project possible
- ❖ Consistent with:
  - USBR's "Water 2025" vision
  - State Water Supply Initiative's findings